PHAT T. NGUYEN (PETER)

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EDUCATION

University of Massachusetts Amherst Candidate**, May 2024**
Bachelor of Science - BS, Computer Science and Mathematics (Statistics) GPA: 3.80/4.00
Relevant Coursework: Algorithms with Data Structures, Programming Methodologies, Introduction to Computation, Reasoning Under Uncertainty, Multivariate Calculus, Machine Learning, Computer Systems Principles
- Dean's List Honors, Professor's Distinction, Recipient of Chancellor's Award, Alpha Lambda Delta Honors

TECHNICAL AND SOFT SKILLS

Programming Languages: Python, C#, C/C++, Java, SQL, Javascript, HTML, CSS
Technologies and Frameworks: .Net, .Net MVC, Azure, Linux (Ubuntu, Arch), Kubernetes, Dockers, MQTT, Git
Technical Skills: Data Structures, Object-Oriented Programming, Algorithms, Relational Database, Machine Learning Algorithms, Software Development, Web Development, Azure Cloud
Soft Skills: Clear Communication, Multitasking, Flexible, Teamwork, Initiative, Creative, Analytical
Technical Certification: Microsoft Certified: Azure Fundamentals (AZ-900)

PROFESSIONAL EXPERIENCE

Stella Agritech - *HCMC, Vietnam* - (Co-Founder) **July 2017 - Aug. 2021**
- Programmed, maintained, and hosted a website with responsive UI and interactive user-data interfaces using ASP.NET MVC, SQL, and Javascript. Displays real-time data of over 50+ devices with a 99% uptime
- Developed an IoT irrigation controller using MQTT that enables over the internet access with no delay
- Implemented machine learning models to predict soil moisture throughout the day to minimize evaporation and decrease daily water usage in small green spaces by 20%
- Acquired a $5,500 contract to implement autonomous irrigation systems for a school in Vietnam

VinaCapital - *HCMC, Vietnam* - (Research Intern) **June 2019 - Aug. 2019**
- Admitted to the 2019 summer research internship position during senior year of high school
- Surveyed and investigated growth potential for high technology farming in 4 provinces in Vietnam
- Advised investment recommendations of 2 agritech startups by identifying prospective business' value propositions in the Vietnamese agritech market

3E Professional Development Conference - *HCMC, Vietnam* - (Organizer) **May 2018 - May 2019**
- Organized a 2-day professional workshop about automation in gardening for 400+ educators and 10+ institutions

LEADERSHIP AND EXTRACURRICULARS

UMass Aerospace Team - *Amherst, MA* - (Software Engineer) **Oct. 2021 - Present**
- Built the onboard flight inertial reference system (IRS) to continuously compute the launch vehicle's dead reckoning position in a GPS-denied environment with a 75 meter (250 ft) resolution
- Programmed a multi-sensor data fusion process in Python to fuse signals in a homogeneous sensor network using a modified Kalman filter to reduce signal noise by 29%
- Co-authored with multidisciplinary teams to write a preliminary and critical design review (PDR and CDR) reports with 400+ pages that complies with NASA's standards

BUILD UMass - *Amherst, MA* - (Product Manager) **Oct. 2021 - Present**
- Developed a store locator app to promote 150+ local Massachusetts lobster businesses and dealerships
- Oversaw a team of 5 members to develop native apps on both iOS and Android using React Native
- Coordinated with the software team and representatives from Massachusetts Lobster Association (MLA) to successfully launch an online store locator app a month ahead of schedule

Gardening and Sustainability Group - *HCMC, Vietnam* - (President) **July 2017 - Aug. 2019**
- Awarded "Top 5 Best Sustainable Business Initiatives in Vietnam" for European Chambers Business Awards 2019
- Planned with sustainability experts to manage the school's sustainability program with a team of 104 members

AWARDS AND ACHIEVEMENTS

Academic Excellence in the Computer Science major **Dec. 2021**
Recognized as a student that excelled as a COMPSCI major (top 10%) at the University of Massachusetts-Amherst

MIT MicroMasters Graduate Course - GPA: Passing (70+) **June 2019 - Sep. 2019**
6.86x: Machine Learning with Python-From Linear Models to Deep Learning

INTERESTS

Autonomous cars, Cooking, Eating different ethnic cuisines, Rockets, Gardening, Tinkering, Soccer